

FDC INVERTER Multi Systems

SYSTEM REFERENCE INCLUDES: Outdoor Unit + Indoor Units + One Remote Controller, + Pipe Kit		FDT	FDTC	FDE	FDUM	FDK		
		CASSETTE	COMPACT CASSETTE	CEILING MOUNTED	DUCTED	WALL MOUNTED		
	OUTDOOR UNIT INVERTER		INDOOR UNIT					
OUTDOOR UNIT	COOLING HEATING range kW	Power supply	REF:	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER
FDC71VN	3.2 to 8.0 3.6 to 9.0 TWIN	1 ph 16A	2 x 40	M2FDT40VN	M2FDTC40VN	M2FDE40VN	FDUMA units include discharge spigots & condensate lift pump.	APPLICATION tba
FDC100VN	6.1 to 11.2 5.8 to 12.5	1 ph* 20A	2 x 50	M2FDT50VN	M2FDTC50VN	M2FDE50VN	M2FDUM50VN	APPLICATION tba
FDC125VN	6.5 to 14.0 6.2 to 16.0	1 ph* 25A	2 x 60	M2FDT60VN	N/A	M2FDE60VN	M2FDUM60VN	APPLICATION tba
6.7 to 14.8 6.3 to 16.8								
	TWIN	1 ph* 30A	2 x 71	M2FDT71VN	N/A	M2FDE71VN	M2FDUM71VN	N/A
FDC140VN	6.7 to 14.8 6.3 to 16.8 TRIPLE	1 ph* 30A	3 x 50	M3FDT50VN	M3FDTC50VN	M3FDE50VN	M3FDUM50VN	APPLICATION tba
	7.0 to 22.4 7.6 to 25.0 TWIN	3 ph 15A/ph	2 x 100	M2FDT100VS	N/A	M2FDE100VS	M2FDUM100VS	N/A
FDC200VS	7.0 to 22.4 7.6 to 25.0 TRIPLE	3 ph 15A/ph	3 x 71	M3FDT71VN	N/A	M3FDE71VS	M3FDUM71VS	N/A
	7.0 to 22.4 7.6 to 25.0 QUAD 15.4		4 x 50	M4FDT50VS	M4FDTC50VS	M4FDE50VS	M4FDUM50VS	APPLICATION tba
	10.6 to 28.0 9.5 to 31.5 TWIN	3 ph 20A/ph	2 x 125	M2FDT125VS	N/A	M2FDE125VS	M2FDUM125VS	N/A
FDC250VS	10.6 to 28.0 9.5 to 31.5 TRIPLE	3 ph 20A/ph	2 x 71 1 x 100	M3FDT71-100VS	N/A	M3FDE71-100VS	M3FDUM71-100VS	N/A
	10.6 to 28.0 9.5 to 31.5 QUAD	3 ph 20A/ph	4 x 60	M4FDT60VS	N/A	M4FDE60VS	M4FDUM60VS	APPLICATION tba

Cooling Nom: 27°Cdb/19°Cwb, Amb: 35°C UK Cooling: I/d: 23°Cdb/16°Cwb, Amb: 30°C Heating: I/d: 20°Cdb, Amb: 7°Cdb/6°Cwb

*3PH UNITS ALSO AVAILABLE 100, 125 & 140

N.B. Wall units are not suitable for mix-match with other indoor styles.











FDC INVERTER Multi Systems

Mitsubishi Heavy Industries has further extended its development in world leading technology applied to high efficiency air conditioning and heat pump systems

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Cooling Range: 8.0 - 28kW

Heating Range: 9.0 - 31.5kW

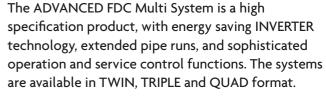


Ideal for cooling and heating open plan areas from 20m² to 600m²









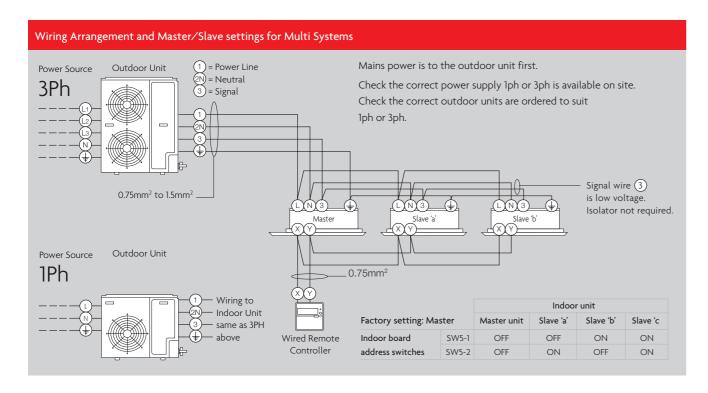
- Simple operation all units on a system are connected to one controller and will operate in the same mode ie. cooling, heating or fan only
- 7-day/24-hr Programmable Timer included in standard wired controller
- Mitsubishi INVERTER Scroll Compressors resulting in significant savings in running costs
- Up to 70m pipe runs
- Compact Outdoor Units with side-blow fans, have now been introduced, with lower sound levels and smaller physical size, ideal for installation in restricted locations







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Power Supplies & Operating Current Outdoor Units

Outdoor Unit	Power Supply Outdoor Unit	Operating to Current (clg.)
FDC71VN	16A	9.8A
FDC100VN	1ph 20A	12.3A
FDC125VN	1ph 25A	18.3A
FDC140VN	1ph 30A	20.4A
FDC200VS	3ph 15A/ph	9.1A/ph
FDC250VS	3ph 20A/ph	12.7A/ph

Indoor Units - Operating Current FDUM FDK* FDT FDE 0.2A 0.3A 0.2A 0.3A 0.2A 0.9A 0.2A 0.2A 1.0A 0.3A 0.4A

0.4A

0.5A

0.6A

1.3A

1.7A

2.0A

0.3A

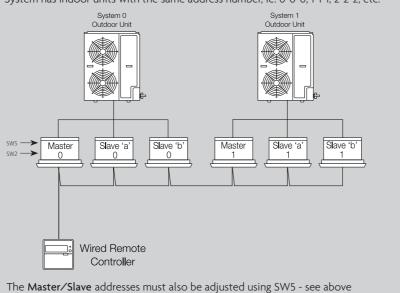
0.6A 0.7A

Indoor Unit Address

Indoor units connected to FD Multi Systems are required to be addressed, to enable the controls to recognise which units are connected to each system. Each system comprises one master indoor unit and one, two or three slave indoor units.

Group Control

Where Multi Systems are controlled on a Group arrangement (up to 16 systems) using a single remote controller, it is necessary to adjust SW2 so each individual Multi System has indoor units with the same address number, ie. 0-0-0, 1-1-1, 2-2-2, etc.





FDC INVERTER Multi Systems

Pipe Length Limitations

Height Difference (all systems)

Outdoor unit above max. height difference is 30m Outdoor unit below max. height difference is 15m

Difference between indoor units max. height difference is 0.5m

Twin Systems 8.0kW to 14.3kW

A = main piping, B = branch piping, C = branch piping

A + B + C	Maximum is	50 metres	
Difference between B & C	No more than	10 metres	
В	Maximum is	20 metres	
С	Maximum is	20 metres	
Triple Systems 14.3kW			

Triple Systems 14.5kW			
A + B + C + D	Maximum is	50 metres	
Difference between B & C or C & D	No more than	10 metres	
В	Maximum is	20 metres	
С	Maximum is	20 metres	
D	Maximum is	20 metres	

Twin Systems 22.4 & 28.0 kW - FDC200VS & FDC250VS

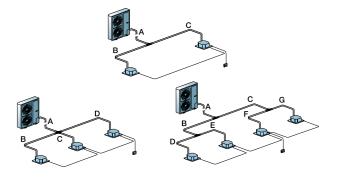
Outdoor unit to furthest indoor unit	Maximum is	70 metres
Difference between B & C	no more than	10 metres
В	Maximum is	30 metres
C	Maximum is	30 metres

Triple Systems 22.4 & 28.0 kW - FDC200VS & FDC250VS

Outdoor unit to furthest indoor unit	Maximum is	70 metres
Difference between B & C & D	no more than	10 metres
В	Maximum is	30 metres
С	Maximum is	30 metres
D	Maximum is	30 metres

Quad Systems 22.4 & 28.0 kW - FDC200VS & FDC250VS

Outdoor unit to furthest indoor unit	Maximum is	70 metres
Difference between B & C	no more than	10 metres
Difference between D, E, F, G	no more than	10 metres
B + D	Maximum is	30 metres
B + E	Maximum is	30 metres
C + F	Maximum is	30 metres
C+G	Maximum is	30 metres



Refrigerant Pipework must be installed within limitations detailed in the table. Each system is supplied with the appropriate branch pipe. Pipe connections to the branch kits must be brazed and it is essential to use nitrogen purge while making the connections.



Outdoor Unit	Cle/Hte kW	System Type		Pipe sizes o.d(in)		
Outdoor Offic	Cigy Titig Kill	System type	Α	В	Č(& D)	D, E, F, G
FDC71VN	8.0/9.0	TWIN	3/8 5/8	3/8 1/2	3/8 1/2	
FDC100VN	11.2/12.5	TWIN	3/8 5/8	3/8 1/2	3/8 1/2	
FDC125VN	14.0/16.0	TWIN	3/8 5/8	3/8 5/8	3/8 5/8	
FDC140VN	14.8/16.8	TWIN	3/8 5/8	3/8 5/8	3/8 5/8	
FDC140VN	14.8/16.8	TRIPLE	3/8 5/8	3/8 1/2	3/8 1/2	
FDC200VS	22.4/25.0	TWIN	3/8 7/8	3/8 5/8	3/8 5/8	
FDC200VS	22.4/25.0	TRIPLE	3/8 7/8	3/8 5/8	3/8 5/8	
FDC200VS	22.4/25.0	QUAD	3/8 7/8	3/8 5/8	3/8 5/8	3/8 1/2
FDC250VS	28.0/31.5	TWIN	1/2 7/8	3/8 5/8	3/8 5/8	
FDC250VS	28.0/31.5	TRIPLE	1/2 7/8	3/8 5/8	3/8 5/8*	
FDC250VS	28.0/31.5	QUAD	1/2 7/8	3/8 5/8	3/8 5/8	3/8 5/8

Outdoor Unit Dimensions & Weights								
mm	Н	W	D	Kg				
FDC71VN	750	970	340	60				
FDC100VN	845	970	370	74				
FDC125VN	845	970	370	74				
FDC140VN	845	970	370	74				
FDC200VS	1300	970	370	122				
FDC250VS	1505	970	370	140				

^{*} application for FDK to be advised